

[illegible]

	<u>β-strand A</u>	loop	<u>β-strand B</u>
360	X D S N P R G V S A Y L S R P S P F D X L F I R K S P T I T		
(SEQ ID NO:1)		1,7	8

	<u>          </u>	loop BC	<u>β-strand C</u>	loop CD
390	C L V V D L A P S K G T V	<u>N L T W S R X A S X X G K P V N H</u>		
		2	9	3

	<u>β-strand D</u>	loop	DE	<u>β-strand E</u>	loop EF
420	<u>S T R K E E K Q R</u>	X N X X G T L T V T S T L P V G T R D W I			
	6			10	4

	<u>β-strand F</u>	loop	FG	<u>β-strand G</u>
450	<u>E G E T Y Q C R V T H P H L P R A L X M R S T T K T S G P</u>			
	11	11 C	5	12

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## MaE11 Light Chain (SEQ ID NO:2)

DIVLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYMNWYQQKPGQPPILLIYAASYLG  
SEIPARFSGSGSGTDFTLNIHPVEEEDAATFYCQQSHEDPYTFGAGTKLEIK

## MaE11 Heavy Chain (SEQ ID NO:3)

DVQLQESGPGLVKPSQSLSLACSVTGYSITSGYSWNWIRQFPGNKLEWMGSITYDGSS  
NYNPSLKNRISVTRDTSQNQFFLKLNSATAEDTATYYCARGSHYFGHWHFAVWGAGTTVT  
VSSAKTTPPSVYPLAR

## Mae13 Light Chain (SEQ ID NO:4)

DIVMTQSQKFMSTSVGDRVSVTCKASQNVSSNVAWYQQKPGQSPKALIYSASYRYS  
PDRFTGSGSGTDFTLTISNVQSEDLAEYFCQQYYTYPLYTFGGGTKLEIKRADAAPTVSI  
FPPSTR

## Mae13 Heavy Chain (SEQ ID NO:5)

DVQLQESGPGLVKPSQSLSLTCTVTGYTITSDNAWNWIRQFPGNKLEWMGYINHSGTT  
SYNPSLKSRIISITRDTSKNQFFLQLNSVTTEDTATYYCAWVVAYAMDYWGQGTSTVTVSSA  
KTTPPSVYPLAR

## Mae15 Light Chain (SEQ ID NO:6)

DIQLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYMNWYQQKPGQPPKLLIYAASNLES  
GIPARFSGSGSGTDFTLNIHPVEEEDAATYYCQQSNEDPFTFGAGT

## Mae15 Heavy Chain (SEQ ID NO:7)

DVQHQESEPDLVKPSQSLSLTCTVTGYTITSGYNRHWIRQFPGNKLEWMGYIHYSGST  
NYNPSLKRRIISITRDTSKNQFFLQLNSVTTEDTATYYCARGSIYYYGSRYRYFDVWGAGT  
TVTIVSSAKRHPHLSIHWPG

FIG. 2

## Humanized MaE11 Version 1 (intact IgG)

## Heavy Chain (SEQ ID NO:8)

EVQLVESGGGLVQPGGSLRLSCA VSGYSITSGYSWNWIRQAPGKGLEWVASITYDGSTNY  
ADSVKGRFTISRDDSKNTFY LQMNSLRAEDTAVYYCARGSHYFGHWHFAVWGQGTLVTVS  
SASTKGKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL  
QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPEL  
LGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE  
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS  
REEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDK  
SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

## Light Chain (SEQ ID NO:9)

DIQLTQSPSSLSASVGDRVTITCRASQSVDDYDGDSYMNWYQQKPGKAPKLLIYAASYLE  
GVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQSHEDPYTFGQGTKVEIKRTVAAPSVF  
IFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSSTYSLS  
STLTLSKADYEEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIG. 3

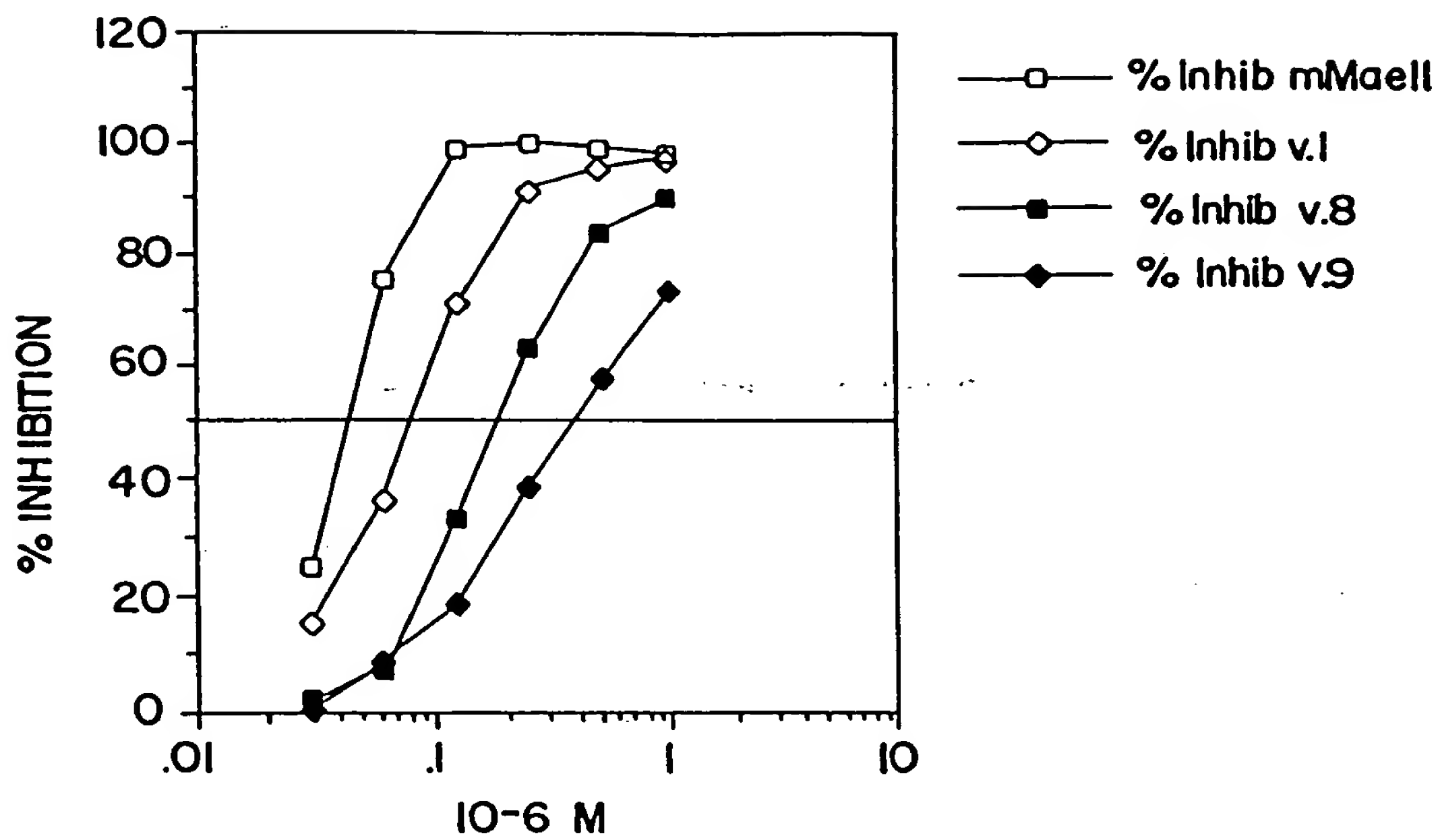


FIG.4a

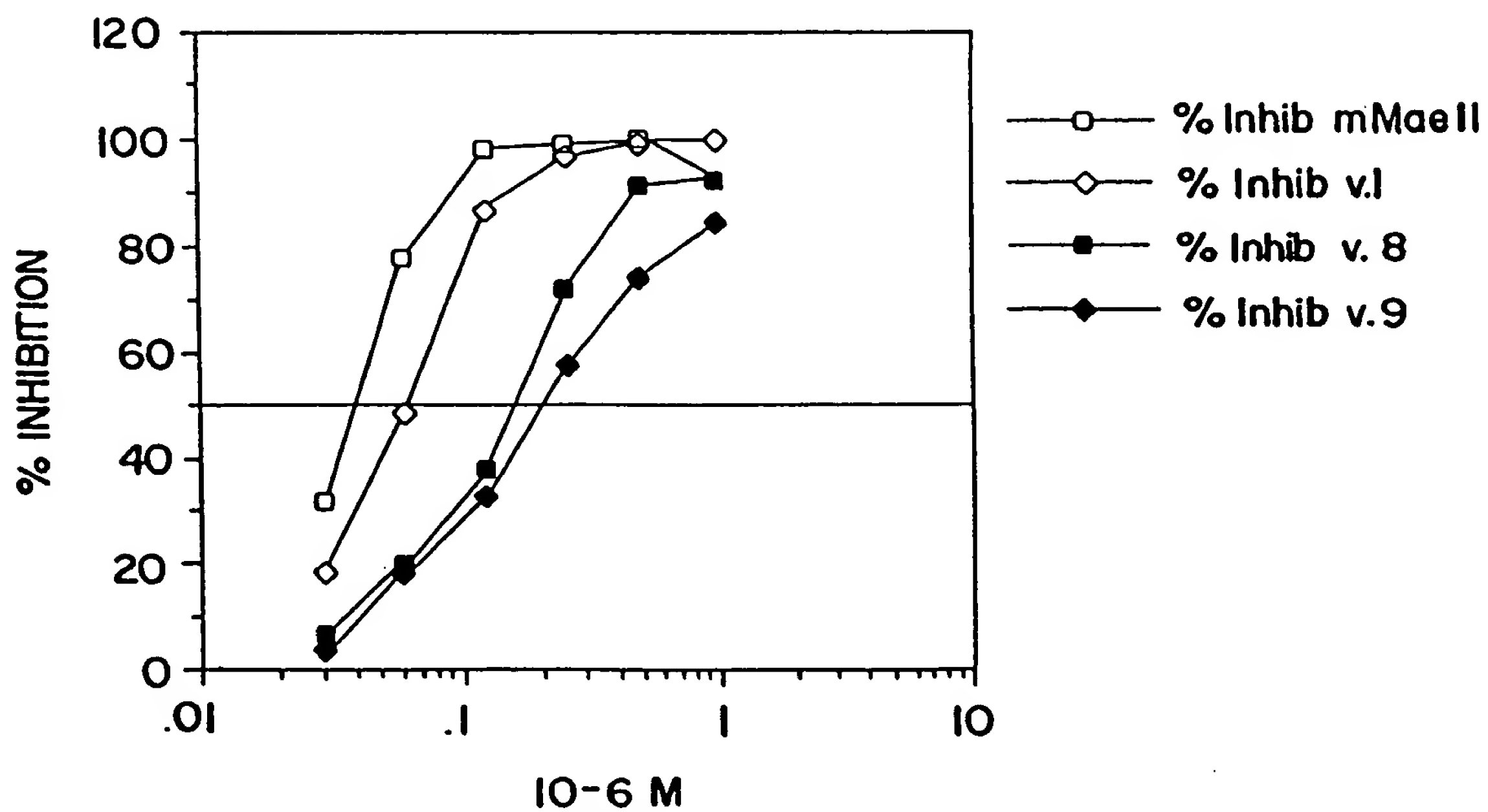


FIG.4b

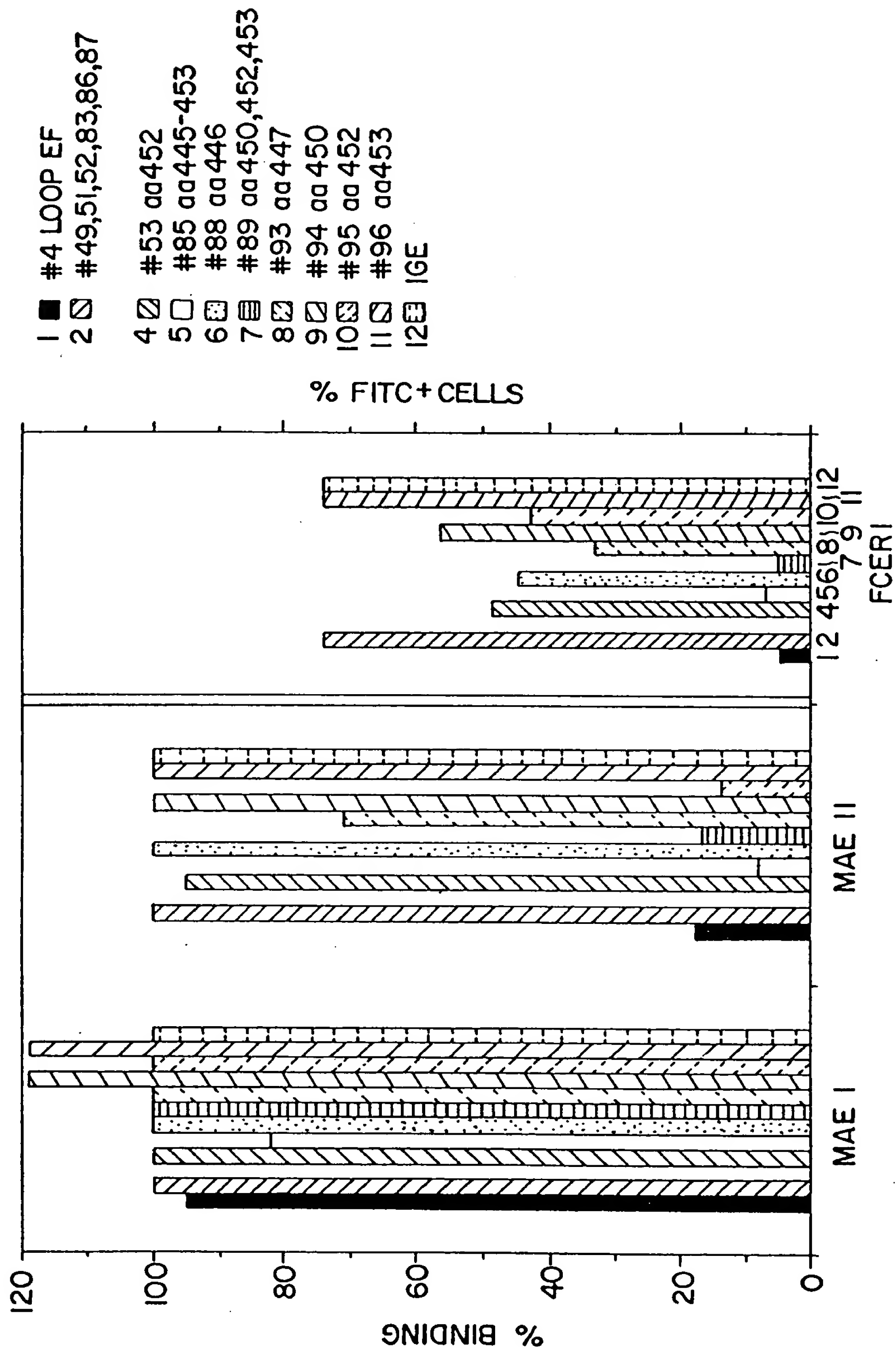


FIG.5a

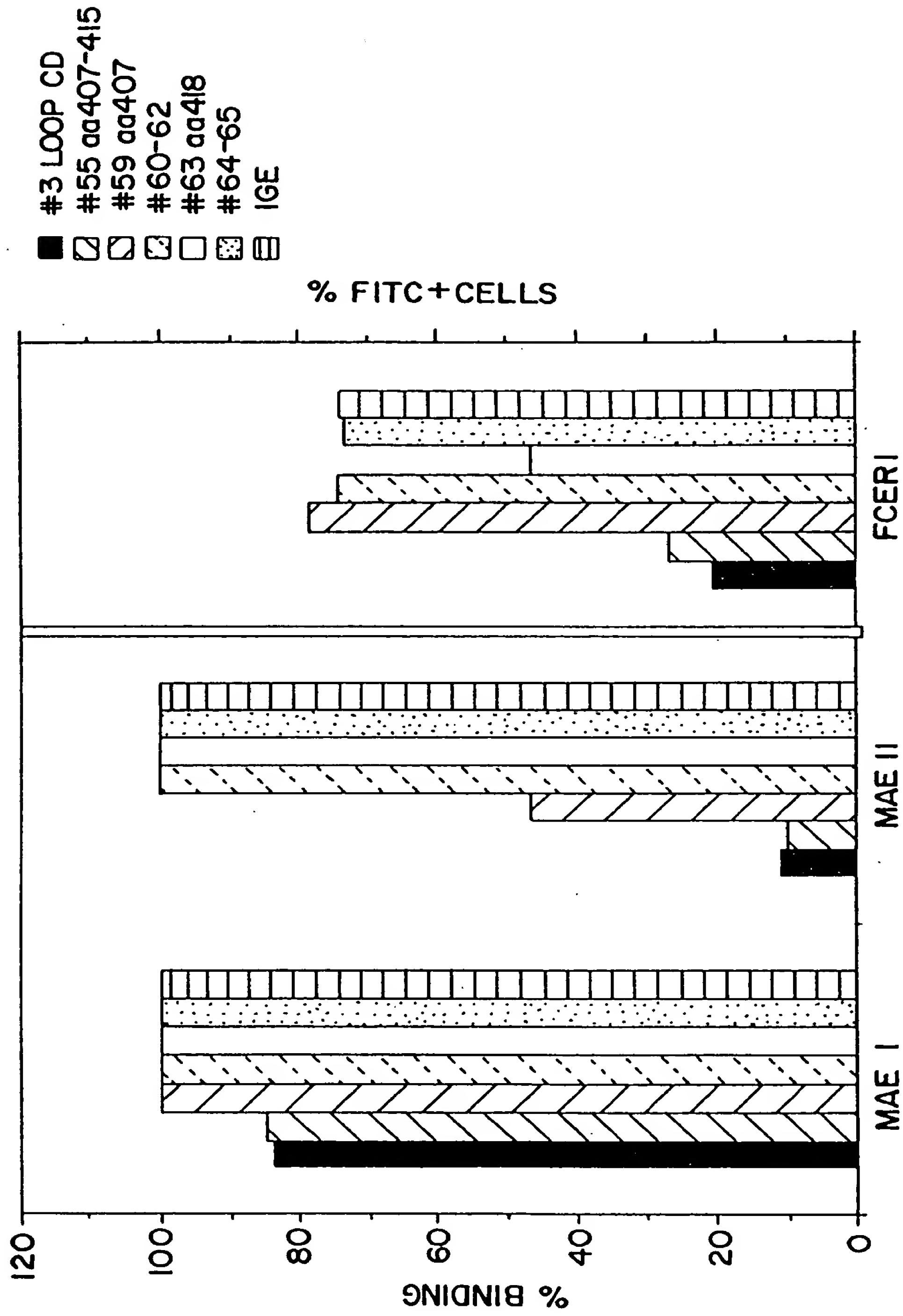


FIG.5b

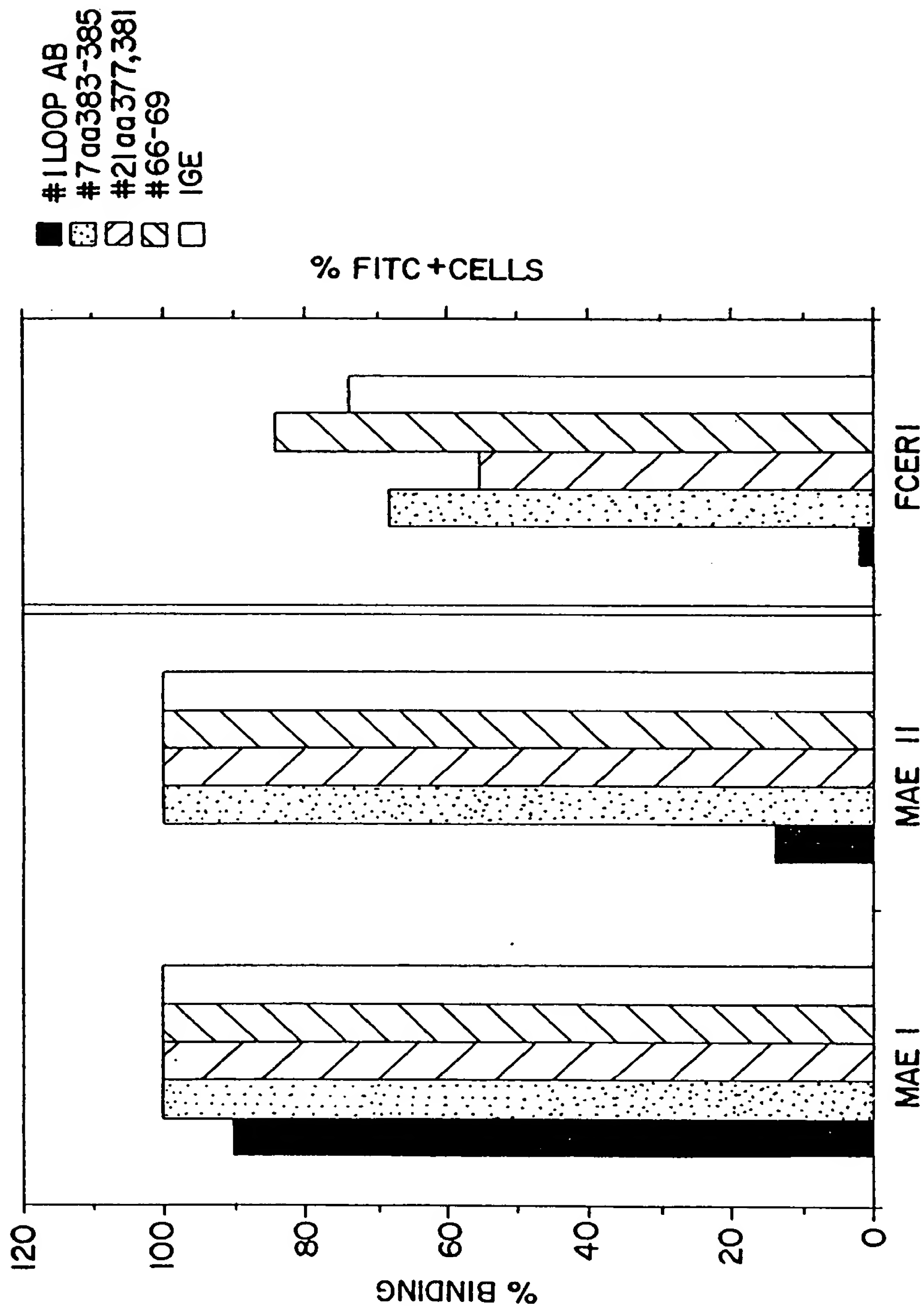


FIG.5C